

1st International Symposium on Biotechnology  
(28th Symposium on Biotechnology with International Participation)  
17–18 March 2023, Čačak, Republic of Serbia



# SYMPOSIUM AGENDA



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## SPONSOR

*Ministry of Science, Technological  
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## ORGANIZER

*Faculty of Agronomy in Čačak,  
University of Kragujevac, Serbia*



**Faculty of Agronomy**

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# AGENDA

*Registration:* **Friday, 17 March 2023, 9:00–10:00**

*Opening Ceremony,* **Amphitheatre, 10:00**

- Welcome Speech by the Organizer
- Address by the Guests
- The Personalities and Influence of Renowned Professors of the Faculty of Agronomy in Čačak – the Culture of Memory (a ten-minute presentation)

*Cocktail and Business Networking*

Lecture Room 34 (1<sup>st</sup> floor), **11:00–12:00**

*Sessions,* **12:00**

1. Field, Vegetable and Forage Crops – **Lecture Room 37**
2. Pomology and Viticulture – **Lecture Room 38**
3. Livestock Production – **Lecture Room 31**
4. Plant Protection, Food Safety and the Environment – **Amphitheatre**
5. Food Technology – **Conference Room**
6. Applied Chemistry – **Lecture Room 30**

*Lunch,* **14:00–16:00**

*Conference Dinner,* **19:00** (Babić Restaurant, Atenica, Čačak)

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**Saturday, 18 March 2023, 10:00**

- **Symposium Conclusions  
& Closing Ceremony**  
(Conference Room, 2<sup>nd</sup> floor)  
**10:00–10:30**
- **Sightseeing Tour**  
(town centre, top of Mount Kablar)  
**10:40 –14:00**
- **Fourth Meeting of the Agronomy and  
Food Technology Alumni Club**  
**14:00–15:00**



**WELCOME !**





# SYMPOSIUM SESSIONS

<b>Lecture Room 37 (first floor)</b>	
<b>Session 1: Field, Vegetable and Forage Crops</b>	
<b>Chair: Dalibor Tomić</b>	
<b>Moderators: Milomirka Madić, Nenad Pavlović</b>	
12:00–12:10	1. <i>Jasmin Šutković, Annessa Van Wieren, Ahmet Yildirim</i> : MAPK <sub>2</sub> AND NRAMP <sub>6</sub> EXPRESSION ANALYSIS UNDER CD STRESS IN DOMESTIC KALE VARIETIES FROM BIH
12:10–12:20	2. <i>Vojin Đukić, Jegor Miladinović, Gordana Dozet, Marija Bajagić, Gorica Cvijanović, Zlatica Mamlić, Vojin Cvijanović</i> : THE INFLUENCE OF THE TIME OF BASIC TILLAGE AND FERTILIZATION ON SOYBEAN YIELD
12:20–12:30	3. <i>Mihajlo Marković, Nataša Čereković, Đurađ Hajder, Milan Šipka, Nery Zapata, Teresa A. Paço, Erminio E. Riezzo, Sabrija Čadro, Mladen Todorović</i> : PROMOTING SMART AGRICULTURAL PRACTICES IN MAIZE PRODUCTION IN BIH - H2020 SMARTWATER PROJECT
12:30–12:50	Discussion
12:50–13:10	<b>Poster Session</b> <b>Moderators:</b> as for Session 1
Poster Session	1. <i>Jordan Marković, Đorđe Lazarević, Vladimir Zornić</i> : CONTENT OF POLYPHENOL COMPOUNDS IN THE DRY MATTER OF ITALIAN RYEGRASS
	2. <i>Kamenko Bratković, Kristina Luković, Vladimir Perišić, Jelena Maksimović, Jasna Savić, Vera Đekić, Mirela Matković Stojšin</i> : ANALYSIS OF GENOTYPE BY ENVIRONMENT INTERACTION FOR SPIKE TRAITS IN WINTER SIX-ROW BARLEY
	3. <i>Violeta Mickovski Stefanović, Dragana Stanisavljević, Jasmina Bačić, Predrag Brković, Miloš Pavlović, Mirela Matković- Stojšin</i> : INFLUENCE OF HEAVY METALS ON WHEAT STEM DEVELOPMENT
	4. <i>Violeta Mickovski Stefanović, Predrag Brković, Svetlana Roljević Nikolić, Helena Majstorović, Dragana Stanisavljević, Predrag Ilić</i> : THE INFLUENCE OF HEAVY METALS ON THE DEVELOPMENT OF THE SURFACE OF WHEAT LEAVES
	5. <i>Marija Gavrilović, Miloš Zelić, Biljana Veljković, Ranko Koprivica, Branislav Dudić, Nenad Pavlović</i> : EQUIPMENT AND USAGE OF TRACTORS IN THE AGRICULTURAL COOPERATIVE "AGROPROM"

	6. <i>Danijela Žunić, Vladimir Sabadoš</i> : INVESTIGATION OF ZINC CONTENT IN AGRICULTURAL LAND IN THE AREA OF THE CITY OF SOMBOR
	7. <i>Silvana Pashovska, Katerina Kareska</i> : ANALYSIS OF THE MEANING AND IMPACT OF SUBSIDIES ON THE DEVELOPMENT OF TOBACCO PRODUCTION IN MACEDONIA
	8. <i>Dušan Marković, Uroš Pešović, Dalibor Tomić, Vladeta Stevović</i> : CROP WEEDS DETECTION USING NEURAL NETWORK MODELS
	9. <i>Vladimir Zornić, Mirjana Petrović, Snežana Babić, Đorđe Lazarević, Vesna Đurović, Dejan Sokolović, Dalibor Tomić</i> : NPK FERTILIZER ADDITION EFFECT ON NARDUS STRICTA TYPE GRASSLAND IN KOPAONIK MOUNTINE
	10. <i>Dalibor Tomić, Vladeta Stevović, Milomirka Madić, Miloš Marjanović, Nenad Paolović, Đorđe Lazarević, Mirjana Petrović, Vladimir Zornić, Jasmina Knežević</i> : THE ROLE OF COBALT IN FORAGE LEGUMES
	11. <i>Milomirka Madić, Dalibor Tomić, Aleksandar Paunović, Vladeta Stevović, Milan Biberdžić, Dragan Đurović, Miloš Marjanović</i> : GRAIN YIELD OF MAIZE HYBRIDS IN DIFFERENT LOCATIONS IN CENTRAL SERBIA
14:00–16:00	Lunch
<b>Lecture Room 38 (first floor)</b> <b>Session 2: Pomology and Viticulture</b> <b>Chair: Nebojša Milošević</b> <b>Moderators: Mlađan Garić, Radmila Ilić</b>	
12:00–12:10	1. <i>Ivan Glišić, Radmila Ilić, Tomo Milošević, Gorica Paunović, Ivana Glišić, Zorica Radičević</i> : FLOWERING PHENOPHASE OF SOME APRICOT (P. ARMENIACA L.) CULTIVARS DEPENDING ON AIR TEMPERATURE
12:10–12:20	2. <i>Nebojša Milošević, Ivana Glišić, Milena Đorđević, Slađana Marić, Sanja Radičević, Darko Jevremović</i> : ‘DIVNA’ AND ‘PETRA’ NEW LATE RIPENING PLUM CULTIVARS RELEASED AT FRUIT RESEARCH INSTITUTE, ČAČAK
12:20–12:40	Discussion
12:40–13:00	<b>Poster Session – Moderators:</b> as for Session 2
Poster Session	1. <i>Ivana Jasnić, Slađana Janković, Dragan Janković, Dragan Milatović, Dragan Grčak, Milosav Grčak</i> : POMOLOGICAL PROPERTIES OF SELECTED WALNUT GENOTYPES FROM THE NATURAL POPULATION

	2. <i>Mlađan Garić, Ivana Radojević, Dragan Nikolić, Vera Rakonjac, Aleksandar Petrović, Zorica Ranković-Vasić</i> : PRODUCTION AND TECHNOLOGICAL CHARACTERISTICS OF PROSPECTIVE VINE HYBRIDS IN THE NIŠ REGION
	3. <i>Jelena Tomić</i> : COMPARATIVE STUDY OF YIELD AND FRUIT QUALITY OF STRAWBERRY CULTIVAR 'SENGA SENGANA' GROWN IN THE OPEN FIELD AND PLASTIC GREENHOUSE CONDITIONS
	4. <i>Tatjana Jovanović-Cvetković, Aleksandar Savić, Danijela Starčević, Boris Pašalić</i> : INFLUENCE OF MACERATION CONDITIONS ON THE ANTIOXIDATIVE PROPERTIES OF VRANAC AND MERLOT RED WINES
14:00–16:00	Lunch
<b>Session 3: Livestock Production</b>	
<b>Chair: Simeon Rakonjac</b>	
<b>Moderators: Vladimir Dosković, Snežana Bogosavljević Bošković</b>	
12:00–12:10	1. <i>Nebojša Novković, Veljko Šarac, Nataša Vukelić, Dragana Tekić, Beba Mutavdžić</i> : THE INFLUENCE OF CORN PRICE IN THE CURRENT YEAR ON THE PIGS NUMBER AND FATTENING PRICE OF THE FOLLOWING YEAR
12:10–12:20	2. <i>Vladimir Kurćubić, Slaviša Stajić, Nemanja Miletić, Marko Petković</i> : INSIGHTFUL APPLICATION OF HERBAL EXTRACTS IN THE PREVENTION AND TREATMENT OF ANIMAL DISEASES AND IMPROVEMENT OF MEAT QUALITY AND SAFETY
12:20–12:30	3. <i>Simeon Rakonjac, Snežana Bogosavljević-Bošković, Vladimir Dosković, Miloš Lukić, Zdenka Škrbić, Veselin Petričević, Milun D. Petrović</i> : THE EFFECT OF THE REARING SYSTEM AND GENOTYPE OF LAYING HENS ON FATTY ACID COMPOSITION OF EGGS
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12:50–13:10	<b>Poster Session</b> <b>Moderators: as for Session 3</b>
Poster Session	1. <i>Blagoje Stojković, Bojan Stojanović, Nenad Đorđević, Vesna Davidović</i> : EFFECT OF ELEVATED HEAT AND HUMIDITY ON CHEWING ACTIVITY, YIELD AND CHEMICAL COMPOSITION OF MILK IN LACTATING COWS
	2. <i>Blagoje Stojković, Nenad Đorđević, Aleksa Božičković, Saša Obradović</i> : THE INFLUENCE OF INOCULATION ON THE CHANGE OF NITROGEN SUBSTANCES IN SILAGE

	3. <i>Biljana Veljković, Milica Kostić, Simeon Rakonjac, Ranko Koprivica, Marija Gavrilović, Milun Petrović</i> : ECONOMIC RESULTS OF BROILERS PRODUCTION ON THE FAMILY FARM
	4. <i>Vladimir Dosković, Snežana Bogosavljević-Bošković, Zdenka Škrbić, Božidar Milošević, Miloš Lukić, Simeon Rakonjac, Veselin Petričević</i> : EFFECT OF PROTEASE ADDED IN FOOD AND SEX ON CHICKEN MEAT CLASSES
	5. <i>Radojica Đoković, Biljana Anđelić, Marko Cincović, Miloš Ži. Petrović, Aleksandar Čukić, Miroslav Lalović</i> : RELATIONSHIPS BETWEEN SERUM ENZYME ACTIVITIES IN THE MILK AND BLOOD IN DAIRY COWS DURING DIFFERENT STAGE OF LACTATION PERIOD
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<b>Session 4: Plant Protection, Food Safety and the Environment</b>	
<b>Chair: Snežana Tanasković</b>	
<b>Moderators: Darko Jevremović, Gorica Đelić</b>	
12:00–12:10	1. <i>Milica Vranešević, Atila Bezdan, Boško Blagojević, Radovan Savić, Radoš Zemunac, Gordana Šekularac, Miroljub Aksić</i> : ASSESSMENT OF GROUNDWATER QUALITY FOR IRRIGATION IN NORTHERN VOJVODINA
12:10–12:20	2. <i>Ljubica Šarčević-Todosijević, Kristina Vojvodić, Bojana Petrović, Vera Popović, Vladimir Filipović, Ljubiša Živanović, Marko Burić, Jelena Golijan</i> : CULTIVATION, IMPORTANCE AND POSSIBILITIES OF APPLICATION OF MEDICINAL PLANTS IN MEDICINE
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	2. <i>Goran Petrović, Aleksandra Đorđević, Jelena Stamenković, Violeta Mitić, Jelena Nikolić, Milan Mitić, Vesna Stankov Jovanović</i> : INCLUSION COMPLEXES OF PESTICIDES IN HYDROXYPROPYL- $\beta$ -CYCLODEXTRINE. EFFECTS ON THEIR WATER SOLUBILITY
	3. <i>Valentina Nikolić, Marijana Simić, Slađana Žilić, Danka Milovanović, Beka Sarić, Marko Vasić</i> : NOVEL TRENDS IN APPLICATION AND PRETREATMENT OF LIGNOCELLULOSIC AGRICULTURAL WASTE

	4. <i>Nataša Kojadinović, Milena Radenković, Simona Đuretanović, Aleksandra Milošković, Marija Jakovljević, Tijana Veličković, Vladica Simić</i> : LENGTH-WEIGHT RELATIONSHIP OF NINE FISH SPECIES FROM GRUŽA RESERVOIR, SERBIA
	5. <i>Darko Jevremović, Bojana Vasiljević, Tatjana Anđelić, Tatjana Vujović</i> : APPLICATION OF QPCR FOR PLUM POX VIRUS DETECTION DURING CRYOTHERAPY
	6. <i>Vladanka Stupar, Markola Saulić, Milica Blažić, Zlata Živković, Darko Stojićević, Marko Stokić, Bojan Stević</i> : STATE OF SOIL FERTILITY IN THE AREA OF THE POŽAREVAC CITY
	7. <i>Dragutin Đukić, Leka Mandić, Vesna Đurović, Marijana Pešaković</i> : BIOINDICATION ASSESSMENT OF WATER, AIR AND SOIL QUALITY
	8. <i>Gorica Djelic, Milica Pavlovic, Snezana Brankovic, Dusko Brkovic, Zoran Simic, Vesna Velickovic</i> : CONTRIBUTION TO THE KNOWLEDGE OF THE ANTIOXIDANT POWER, PHENOLIC AND MINERAL COMPOSITION OF SANGUISORBA MINOR SCOP.
	9. <i>Vesna Đurović, Leka Mandić, Marija Igrošanac, Mirjana Radovanović, Marijana Pešaković, Jelena Mladenović, Dragutin Đukić</i> : CELERY ( <i>APIUM GRAVEOLENS L.</i> ) AS A SOURCE OF PHYTOCHEMICALS WITH ANTIOXIDANT AND ANTIBACTERIAL EFFECTS
	10. <i>Slobodanka Stanojević-Nikolić, Milan Nikolić, Vladimir Srđić, Marina Šćiban</i> : KINETIC AND EQUILIBRIUM STUDIES OF BIOSORPTION OF Cd <sup>2+</sup> IONS USING SILICA-ALGINATE-YEAST COMPOSITES
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12:00–12:10	1. <i>Nikola Stanišić, Nevena Maksimović, Bogdan Cekić, Dragana Ružić-Muslić, Ivan Ćosić, Nemanja Lečić, Maja Petričević</i> : MEAT COLOUR DIFFERENCES BETWEEN ALPINE, BALKAN AND SERBIAN WHITE GOAT BREEDS SLAUGHTERED AT 18 KG OF BODY WEIGHT
12:10–12:20	2. <i>Radoslava Savić Radovanović, Slobodanka Janičijević, Jelena Aleksić Radojković</i> : MICROBIOLOGICAL ASSESSMENT OF ICE CREAM SOLD AT THE TERRITORY OF BELGRADE
12:20–12:30	3. <i>Slaviša Stajić, Vladimir Tomović, Vladimir Kurćubić, Dušan Živković</i> : INSTRUMENTAL COLOUR AND TEXTURE PROPERTIES OF FRANKFURTER-TYPE SAUSAGES WITH PLANT OILS

12:30–12:40	4. <i>Vladimir Kurćubić, Slaviša Stajić, Nemanja Miletić, Marko Petković, Igor Đurović, Vesna Milovanović</i> : NATURAL ANTIMICROBIAL AGENTS: APPLICATION IN FOOD PRESERVATION AND FOOD BORN DISEASE CONTROL
12:40–12:50	5. <i>Alexander D. Lukyanov, Svetlana G. Studennikova, Luidmila N. Alekseenko, David E. Bidenko, Vladimir Mladenović, Marko Petković, Ekaterina A. Mardasova</i> : MICROCONTROLLER CONTROL SYSTEM FOR A CONVECTIVE DEHYDRATOR
12:50–13:10	Discussion
13:10–13:30	<b>Poster Session – Moderators:</b> as for Session 5
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	2. <i>Dobriła Randelović, Svetlana Bogdanović, Ivana Zlatković</i> : NUTRITIONAL VALUE AND MICROBIOLOGICAL QUALITY OF VARIOUS TYPES OF BREAD
	3. <i>Senita Isaković, Enver Karahmet, Saud Hamidović, Jasmina Tahmaz and Ajla Smajlović</i> : EFFECT OF PACKAGING ON HEALTH SAFETY OF SAUSAGE
	4. <i>Danka Milovanović, Valentina Nikolić, Slađana Žilić, Marijana Simić, Beka Sarić, Snežana M. Jovanović, Marko Vasić</i> : THE INFLUENCE OF MICRONIZATION OF CEREALS AND LEGUMES ON FEED CONVERSION, DIGESTIBILITY, AND DAILY GAIN OF WEANED PIGLETS
	5. <i>Aleksandar Petrović, Ivana Plavšić-Janjatović, Nikolina Lisov, Maria Čebela, Uroš Čakar, Ivan Stanković, Brižita Đorđević</i> : ANTIOXIDANT PROPERTIES AND BIOLOGICAL ACTIVITY OF FRUIT WINES
	6. <i>Dragana Stanisaavljević, Jovana Mihajlović, Ivan Nešović, Milica Stojanović, Dušica Ćirković, Violeta Mickovski Stefanović, Predrag Ilić, Dobriła Randjelović, Dragan Veličković, Zvonko Zlatanović</i> : PLUM AS A RAW MATERIAL AND ITS INFLUENCE ON THE QUALITY OF BRANDY
	7. <i>Dragana Stanisaavljević, Aleksa Crkvenjakov, Jelica Lazić Saković, Nebojša Milosavljević, Svetlana Bogdanović, Violeta Mickovski Stefanović, Predrag Ilić, Jovan Ćirić, Dejan Davidović, Aleksandar Veličković</i> : WATER COMPOSITION AND THEIR INFLUENCE ON THE WORK OF MALT AMYLOLYTIC ENZYMES

	8. <i>Aleksandra Stojićević, Biljana Rabrenović, Mališa Antić</i> : NUTRITIONAL VALUE OF COLD-PRESSED SUNFLOWER OIL
	9. <i>Jasmina Tahmaz, Amra Sejfić, Enver Karahmet, Sabina Operta, Senita Isaković</i> : SENSORY PROPERTIES OF HOMEMADE AND INDUSTRIAL MAYONNAISE
	10. <i>Valerija Pantelić, Nemanja Miletić, Vesna Milovanović, Igor Đurović, Marko Petković</i> : THE ANTIOXIDANT POTENTIAL OF CONVECTIVE AND MICROWAVE-DRIED RASPBERRIES
	11. <i>Valerija Pantelić, Nemanja Miletić, Vesna Milovanović, Igor Đurović, Marko Petković, Alexander Lukyanov, Vladimir Filipović</i> : ENERGY USAGE AND RASPBERRY CONVECTIVE AND MICROWAVE DRYING PARAMETERS
	12. <i>Tomislav Trišović, Branimir Grgur, Svetomir Milojević, Zaga Trišović</i> : MOBILE DEVICE FOR CHEMICAL CLEANING OF HEAT EXCHANGERS
	13. <i>Tomislav Trišović, Branimir Grgur, Zaga Trišović</i> : MOBILE DEVICE FOR WATER PURIFICATION WITH BOILER
14:00–16:00	Lunch
<b>Lecture Room 30</b> <b>Session 6: Applied Chemistry</b> <b>Chair: Milan Mitić</b> <b>Moderators: Ivana Sredović Ignjatović, Pavle Mašković</b>	
12:00–12:10	1. <i>Nevena Matić, Nevena Barać, Danka Mitrović, Ivana Sredović Ignjatović, Miroljub Barać</i> : PHENOLIC CONTENT AND IN VITRO ANTIOXIDANT ACTIVITY OF BLACK MULBERRY ( <i>Morus Nigra</i> L.) FRUIT, JUICE AND POMACE
12:10–12:30	Discussion
12:30–12:50	<b>Poster Session – Moderators:</b> as for Session 6
Poster Session	1. <i>Vojkan Miljković, Marko Mladenović, Niko Radulović</i> : BOVOLID – CHEMICAL COMPOUND FOR EVALUATING THE AGE OF WHITE MULBERRY LEAVES
	2. <i>Vojkan Miljković, Ivana Gajić, Jelena Mrmošanin, Milica Nešić</i> : THE DIFFERENCE IN LYCOPENE AND $\beta$ -CAROTENE CONTENT IN CITRUS PARADISI FRUIT AND ROSA CANINA DRIED FRUIT
	3. <i>Milan Mitić, Jelena Mitić, Jelena Nikolić, Pavle Mašković</i> : CLASSIFICATION OF FRUIT TREE LEAVES ACORDING TO PHENOLIC PROFILE USING PRINCIPAL COMPONENT ANALYSIS

	4. <i>Petar Stanić, Darko Ašanin, Marijana Vasić, Tanja Soldatović, Biljana Šmit</i> : KINETICS OF THE REACTION OF AN ARYLIDENE 2-THIOHYDANTOIN DERIVATIVE WITH SOME Pd(II) COMPLEXES
	5. <i>Jelena Mašković, Gorica Paunović, Paole Mašković, Ivana Kaplarević</i> : CHEMICAL ANALYSIS OF DIFERENT BRANDS OF ORANGE JUICE IN SERBIAN MARKET
	6. <i>Jelena Mladenović, Đorđe Jovanović, Nenad Pavlović, Milena Đurić, Ljiljana Bošković-Rakočević, Jasmina Zdravković</i> : CHEMICAL COMPOSITION OF LEMON GRASS EXTRACTS
	7. <i>Vesna Milovanović, Miloš Petrović, Vladimir Kurćubić, Marko Petković, Nemanja Miletić, Igor Đurović</i> : COMPARISON OF COW'S MILK WITH PLANT-BASED MILK ALTERNATIVES: SELECTED CHEMICAL AND PHYSICAL ANALYSIS
	8. <i>Aleksandar Petrovic, Nikolina Lisov, Ivana Plavsic-Janjatovic, Ivana Sredovic-Ignjatovic, Danka Mitrovic</i> : THE INFLUENCE OF THE ENOLOGICAL TANNINS APPLICATION ON THE PHENOLIC COMPOSITION OF WINE
	9. <i>Denis Mitov, Stefan Petrović, Aleksandar Randelović, Jelena Mrmošanin, Aleksandra Pavlović, Snežana Tošić</i> : UPTAKE OF HEAVY METALS BY ALFALFA ( <i>Medicago sativa</i> L.): POT EXPERIMENT
	10. <i>Denis Mitov, Stefan Petrović, Nikola Đorđević, Jelena Mrmošanin, Aleksandra Pavlović, Snežana Tošić</i> : UPTAKE OF HEAVY METALS BY WHEAT ( <i>Triticum aestivum</i> L.): POT EXPERIMENT
	11. <i>Alexander D. Lukyanov, Danila Y. Donskoy, Vladimir Filipović, Tamara B. Asten</i> : A MATHEMATICAL MODEL FOR CONTROLLING THE ACIDITY OF A SOLUTION IN A BIOREACTOR OF THE ARTIFICIAL GIT OF POULTRY
	12. <i>Alexandr D. Lukyanov, Danila Y. Donskoy, Miroslav A. Vernezi, Maria S. Mazanko, Tatiana S. Onoyko</i> : MICROBIOLOGICAL COMPLEX FOR MODELING PROCESSES IN THE GASTROINTESTINAL TRACT OF ANIMALS
14:00–16:00	Lunch



<b>Saturday, 18 March 2023</b>	
<b>10:00–10:30</b>	<b>Symposium Conclusions &amp; Closing Ceremony</b> (Conference Room, 2 <sup>nd</sup> floor)
<b>10:40–14:00</b>	<b>Sightseeing Tour (town centre, top of Mount Kablar)</b>
<b>14:00–15:00</b>	<b>Fourth Meeting of the Agronomy and Food Technology Alumni Club</b>

**1st International Symposium on Biotechnology**  
(28th Symposium on Biotechnology with International Participation)  
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**Notes**

